EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	113	network and model and (categories OR classes) and search and tcp and index and extract and mapping and source and associations	USPAT	OR	OFF	2007/03/05 09:38
L2	214	network and model and (categories OR classes) and search and tcp and index and extract and mapping and source and associations	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/05 09:38

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Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
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Hits 1 through 50 out of 113

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Refine Search	network and model and (categories OR classes) and

PAT. NO.	Title
1	7,185,075 ⏹ Element management system with dynamic database updates based on parsed snooping
2	7,167,926 ⏹ TCP/IP offload network interface device
3	7,165,041 ⏹ Web-based architecture sales tool
4	7,149,698 ⏹ Business alliance identification in a web architecture Framework
5	7,145,898 ⏹ System, method and article of manufacture for selecting a gateway of a hybrid communication system architecture
6	7,143,066 ⏹ Systems and methods for matching, selecting, narrowcasting, and/or classifying based on rights management and/or other information
7	7,130,895 ⏹ XML-based language description for controlled devices
8	7,130,807 ⏹ Technology sharing during demand and supply planning in a network-based supply chain environment
9	7,124,302 ⏹ Systems and methods for secure transaction management and electronic rights protection
10	7,124,101 ⏹ Asset tracking in a network-based supply chain environment
11	7,120,596 ⏹ System, method and computer program product for landed cost reporting in a supply chain management framework
12	7,113,934 ⏹ Element management system with adaptive interfacing selected by last previous full-qualified managed level
13	7,110,983 ⏹ Methods for matching, selecting, narrowcasting, and/or classifying based on rights management and/or other information
14	7,100,195 ⏹ Managing user information on an e-commerce system
15	7,096,465 ⏹ Process control configuration system with parameterized objects
16	7,092,914 ⏹ Methods for matching, selecting, narrowcasting, and/or classifying based on rights management and/or other information

17 7,089,530 ⅠⅠ Process control configuration system with connection validation and configuration

18 7,089,307 ⅠⅠ Synchronization of controlled device state using state table and eventing in data-driven remote device control model

19 7,089,239 ⅠⅠ Method and system for preventing mutually exclusive content entities stored in a data repository to be included in the same compilation of content

20 7,076,494 ⅠⅠ Providing a functional layer for facilitating creation and manipulation of compilations of content

21 7,062,567 ⅠⅠ Intelligent network streaming and execution system for conventionally coded applications

22 7,049,096 ⅠⅠ Polynucleotides encoding a novel human G-protein coupled receptor splice variant HGPRBMY29sv1

23 7,043,524 ⅠⅠ Network caching system for streamed applications

24 7,043,488 ⅠⅠ Method and system for storing hierarchical content objects in a data repository

25 7,007,034 ⅠⅠ File structure for storing content objects in a data repository

26 7,006,881 ⅠⅠ Media recording device with remote graphic user interface

27 6,986,102 ⅠⅠ Method and configurable model for storing hierarchical data in a non-hierarchical data repository

28 6,985,901 ⅠⅠ Controlling data collection, manipulation and storage on a network with service assurance capabilities

29 6,983,227 ⅠⅠ Virtual models of complex systems

30 6,959,320 ⅠⅠ Client-side performance optimization system for streamed applications

31 6,957,186 ⅠⅠ System method and article of manufacture for building, managing, and supporting various components of a system

32 6,938,021 ⅠⅠ Methods for matching, selecting, narrowcasting, and/or classifying based on rights management and/or other information

33 6,918,113 ⅠⅠ Client installation and execution system for streamed applications

34 6,910,068 ⅠⅠ XML-based template language for devices and services

35 6,909,708 ⅠⅠ System, method and article of manufacture for a communication system architecture including video conferencing

36 6,892,230 ⅠⅠ Dynamic self-configuration for ad hoc peer networking using mark-up language formated description messages

37 6,850,252 ⅠⅠ Intelligent electronic appliance system and method

38 6,842,906 ⅠⅠ System and method for a refreshable proxy pool in a communication services patterns environment

39 6,839,701 ⅠⅠ Hitmask for querying hierarchically related content entities

40 6,789,091 ⅠⅠ Method and system for web-based analysis of drug adverse effects

41 6,779,004 ⅠⅠ Auto-configuring of peripheral on host/peripheral computing platform with peer networking-to-host/peripheral adapter for peer networking connectivity

42 6,754,181 ⅠⅠ System and method for a directory service supporting a hybrid communication system architecture

43 6,751,665 ⅠⅠ Providing window updates from a computer to a network interface device

44 6,742,015 ⅠⅠ Base services patterns in a netcentric environment

45 6,731,625 ⅠⅠ System, method and article of manufacture for a call back architecture in a hybrid network with support for internet telephony

46 6,725,281 ⅠⅠ Synchronization of controlled device state using state table and eventing in data-driven remote device control model

47 6,721,713 ⅠⅠ Business alliance identification in a web architecture framework

48 6,718,535 System, method and article of manufacture for an activity framework design in an e-commerce based environment

49 6,715,145 Processing pipeline in a base services pattern environment

50 6,704,873 Secure gateway interconnection in an e-commerce based environment

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	PAT. NO.	Title
51	6,704,024	Visual content browsing using rasterized representations
52	6,671,818	Problem isolation through translating and filtering events into a standard object format in a network based supply chain
53	6,640,249	Presentation services patterns in a netcentric environment
54	6,640,244	Request batcher in a transaction services patterns environment
55	6,640,238	Activity component in a presentation services patterns environment
56	6,640,145	Media recording device with packet data interface
57	6,636,242	View configurer in a presentation services patterns environment
58	6,633,878	Initializing an ecommerce database framework
59	6,615,253	Efficient server side data retrieval for execution of client side applications
60	6,615,199	Abstraction factory in a base services pattern environment
61	6,615,166	Prioritizing components of a network framework required for implementation of technology
62	6,611,867	System, method and article of manufacture for implementing a hybrid network
63	6,611,840	Method and system for removing content entity object in a hierarchically structured content object stored in a database
64	6,611,755	Vehicle tracking, communication and fleet management system
65	6,609,128	Codes table framework design in an E-commerce architecture
66	6,606,744	Providing collaborative installation management in a network-based supply chain environment
67	6,606,660	Stream-based communication in a communication services patterns environment

68 6,601,234 Attribute dictionary in a business logic services environment
69 6,601,233 Business components framework
70 6,601,192 Assertion component in environment services patterns
71 6,578,068 Load balancer in environment services patterns
72 6,571,285 Providing an integrated service assurance environment for a network
73 6,571,282 Block-based communication in a communication services patterns environment
74 6,564,263 Multimedia content description framework
75 6,550,057 Piecemeal retrieval in an information services patterns environment
76 6,549,949 Fixed format stream in a communication services patterns environment
77 6,539,396 Multi-object identifier system and method for information service pattern environment
78 6,536,037 Identification of redundancies and omissions among components of a web based architecture
79 6,529,948 Multi-object fetch component
80 6,529,909 Method for translating an object attribute converter in an information services patterns environment
81 6,523,027 Interfacing servers in a Java based e-commerce architecture
82 6,519,571 Dynamic customer profile management
83 6,502,213 System, method, and article of manufacture for a polymorphic exception handler in environment services patterns
84 6,496,850 Clean-up of orphaned server contexts
85 6,477,665 System, method, and article of manufacture for environment services patterns in a netcentic environment
86 6,477,580 Self-described stream in a communication services patterns environment
87 6,473,794 System for establishing plan to test components of web based framework by displaying pictorial representation and conveying indicia coded components of existing network framework
88 6,449,627 Volume management method and system for a compilation of content
89 6,442,748 System, method and article of manufacture for a persistent state and persistent object separator in an information services patterns environment
90 6,438,594 Delivering service to a client via a locally addressable interface
91 6,434,628 Common interface for handling exception interface name with additional prefix and suffix for handling exceptions in environment services patterns
92 6,434,620 TCP/IP offload network interface device
93 6,434,568 Information services patterns in a netcentric environment
94 6,427,132 System, method and article of manufacture for demonstrating E-commerce capabilities via a simulation on a network
95 6,400,996 Adaptive pattern recognition based control system and method
96 6,345,239 Remote demonstration of business capabilities in an e-commerce environment
97 6,339,832 Exception response table in environment services patterns
98 6,336,138 Template-driven approach for generating models on network services
99 6,335,927 System and method for providing requested quality of service in a hybrid network
100 6,332,163 Method for providing communication services over a computer network system

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PAT. NO.	Title
101 6,289,382	System, method and article of manufacture for a globally addressable interface in a communication services patterns environment
102 6,286,047	Method and system for automatic discovery of network services
103 6,112,181	Systems and methods for matching, selecting, narrowcasting, and/or classifying based on rights management and/or other information
104 6,094,654	Data management system for file and database management
105 6,088,693	Data management system for file and database management
106 5,999,525	Method for video telephony over a hybrid network
107 5,978,804	Natural products information system
108 5,920,873	Data management control system for file and database
109 5,870,746	System and method for segmenting a database based upon data attributes
110 5,867,495	System, method and article of manufacture for communications utilizing calling, plans in a hybrid network
111 5,867,494	System, method and article of manufacture with integrated video conferencing billing in a communication system architecture
112 5,832,496	System and method for performing intelligent analysis of a computer database
113 5,826,265	Data management system having shared libraries

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IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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Best 200 shown

1 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on CASCON '97**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index term

> Understanding distributed applications is a tedious and difficult task. Visualizations based on pro
> often used to obtain a better understanding of the execution of the application. The visualization
> event tracer developed at the University of Waterloo. However, these diagrams are often very c<
> the user with the desired overview of the application. In our experience, such tools display repe
> trivial commun ...

2 Facial modeling and animation
◆ Jörg Haber, Demetri Terzopoulos
August 2004   **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(18.15 MB)   Additional Information: full citation, abstract

> In this course we present an overview of the concepts and current techniques in facial modeling
> introduce this research area by its history and applications. As a necessary prerequisite for facia
> acquisition is discussed in detail. We describe basic concepts of facial animation and present diff
> parametric models, performance-, physics-, and learning-based methods. State-of-the-art techn
> based facial animation, mass-s ...

3 Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fide
◆ **Additional presentations from the 24th course are available on the citation page**
Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
July 2006   **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**
Publisher: ACM Press
Full text available: 📄 pdf(5.07 MB) 🎬 mov(68:6 MIN)   Additional Information: full citation, abstract, references

> The objective of this course is to provide an introduction to the issues that must be considered w
> 3D engaging shared virtual environments. The principles of human perception guide important d
> and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how
> exploited to achieve realism in high fidelity environments within the constraints of available finit
> resources.In this course w ...

> **Keywords:** collaborative environments, haptics, high-fidelity rendering, human-computer intera
> networked applications, perception, virtual reality

4 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aː
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB)   Additional Information: full citation, abstract, citings

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely
processor. The latest graphics architectures provide tremendous memory bandwidth and compu·
fully programmable vertex and pixel processing units that support vector operations up to full IE
precision. High level languages have emerged for graphics hardware, making this computational
Architecturally, GPUs are highly parallel s ...

5 A taxonomy of Data Grids for distributed data sharing, management, and processing

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: pdf(1.70 MB)   Additional Information: full citation, abstract, references, index term

Data Grids have been adopted as the next generation platform by many scientific communities t
transport, process, and manage large data collections distributed worldwide. They combine high
technologies with high-performance networking and wide-area storage management techniques
the key concepts behind Data Grids and compare them with other data sharing and distribution
delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizati

6 Survey and taxonomy of packet classification techniques

David E. Taylor
September 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 3

Publisher: ACM Press

Full text available: pdf(1.60 MB)   Additional Information: full citation, abstract, references, index term

Packet classification is an enabling function for a variety of Internet applications including qualitʏ
monitoring, and multimedia communications. In order to classify a packet as belonging to a part
network nodes must perform a search over a set of filters using multiple fields of the packet as t
there have been two major threads of research addressing packet classification, algorithmic and
pioneerin ...

Keywords: Packet classification, flow identification

7 Notable computer networks

John S. Quarterman, Josiah C. Hoskins
October 1986 **Communications of the ACM**, Volume 29 Issue 10

Publisher: ACM Press

Full text available: pdf(4.66 MB)   Additional Information: full citation, abstract, references, citings, inc

Computer networks are becoming more numerous and more diverse. Collectively, they constitut
metanetwork.

8 Identification and classification: Class-of-service mapping for QoS: a statistical signature-b
traffic classification

Matthew Roughan, Subhabrata Sen, Oliver Spatscheck, Nick Duffield
October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

Publisher: ACM Press

Full text available: pdf(707.69 KB)   Additional Information: full citation, abstract, references, citings, inc

The ability to provide different Quality of Service (QoS) guarantees to traffic from different appli feature for many IP network operators, particularly for enterprise networks. Although various m providing QoS in the network, QoS is yet to be widely deployed. We believe that a key factor ho adoption is the absence of suitable methodologies/processes for appropriately mapping the traff applications to diff ...

Keywords: class of service (CoS), quality of service (QoS), statistical signature, traffic classific

9   Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh
January 2006 **ACM Oral History interviews**

Publisher: ACM Press

Full text available: pdf(761.66 KB)   Additional Information: full citation, abstract

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high sc Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in th Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in I 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylva went to work for Do ...

10   Balancing performance and flexibility with hardware support for network architectures

Ilija Hadžić, Jonathan M. Smith
November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(719.03 KB)   Additional Information: full citation, abstract, references, index term

The goals of performance and flexibility are often at odds in the design of network systems. The enough to justify an architectural solution, rather than a set of context-specific solutions. The Pr Processing Pipeline (P4) design uses programmable hardware to selectively accelerate protocol of field-programmable gate arrays (FPGAs) and an associated library of network processing mod hardware are augmented with so ...

Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable programmable networks, protocol processing

11   Stateful distributed interposition

John Reumann, Kang G. Shin
February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(833.84 KB)   Additional Information: full citation, abstract, references, index term

Interposition-based system enhancements for multitiered servers are difficult to build because ir typically lost at application and machine boundaries. For example, resource quotas and user idei easily between cooperating services that execute on different hosts or that communicate with ei services. Application-transparent system enhancement is difficult to achieve when such context complex servic ...

Keywords: Distributed computing, component services, distributed context, multitiered service: server consolidation

12   The state of the art in distributed query processing

Donald Kossmann
December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Publisher: ACM Press

Full text available: pdf(455.39 KB)   Additional Information: full citation, abstract, references, citings, inc

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, an

order to stay competitive. While much of the infrastructure for distributed data processing is alre network technology), a number of issues make distributed data processing still a complex under systems can become very large, involving thousands of heterogeneous sites including PCs and n machines; (2) the stat ...

Keywords: caching, client-server databases, database application systems, dissemination-base economic models for query processing, middleware, multitier architectures, query execution, qu replication, wrappers

13 Security: The shunt: an FPGA-based accelerator for network intrusion prevention
Nicholas Weaver, Vern Paxson, Jose M. Gonzalez
February 2007 **Proceedings of the 2007 ACM/SIGDA 15th international symposium on Fielc arrays FPGA '07**
Publisher: ACM Press
Full text available: pdf(240.27 KB)   Additional Information: full citation, abstract, references, index term

The sophistication and complexity of analysis performed by today's network intrusion preventior greatly from implementation using general-purpose CPUs. Yet the performance of such CPUs inc necessary to process today's high-rate traffic streams. A key observation, however, is that mucl a high-volume stream can, after some initial analysis, be qualified as "likely uninteresting." To tl developed an in-line, ...

Keywords: FPGA, NIC, hardware acceleration, intrusion detection

14 Information agents for automated browsing
Chanda Dharap, Martin Freeman
November 1996 **Proceedings of the fifth international conference on Information and know CIKM '96**
Publisher: ACM Press
Full text available: pdf(1.12 MB)   Additional Information: full citation, references, index terms

15 Hypothesizing and reasoning about attacks missed by intrusion detection systems
Peng Ning, Dingbang Xu
November 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Iss
Publisher: ACM Press
Full text available: pdf(733.56 KB)   Additional Information: full citation, abstract, references, index term

Several alert correlation methods have been proposed over the past several years to construct h from low-level intrusion alerts reported by intrusion detection systems (IDSs). However, all of th heavily on the underlying IDSs, and cannot deal with attacks missed by IDSs. In order to improv intrusion alert correlation and reduce the impact of missed attacks, this paper presents a series hypothesize and reason about a ...

Keywords: Intrusion alert correlation, intrusion detection, missed attacks

16 Similarity search: Efficient peer-to-peer semantic overlay networks based on statistical lanc
Alessandro Linari, Gerhard Weikum
November 2006 **Proceedings of the international workshop on Information retrieval in peer P2PIR '06**
Publisher: ACM Press
Full text available: pdf(594.21 KB)   Additional Information: full citation, abstract, references, index term

In this paper we address the query routing problem in peer-to-peer (P2P) information retrieval. the idea of a Semantic Overlay Network (SON), in which each peer becomes neighbor of a small among those that are most similar to it. Peers in the network are represented by a statistical Lat from their local data collections but, instead of using the non-metric Kullback-Leibler divergence

between them, we use ...

Keywords: language models, metric space, nearest neighbor search, peer-to-peer, semantic o\

17 Queueing Network-Model Human Processor (QN-MHP): A computational architecture for r
human-machine systems
Yili Liu, Robert Feyen, Omer Tsimhoni
March 2006   **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 13 Issue 1
Publisher: ACM Press
Full text available: pdf(1.25 MB)   Additional Information: full citation, abstract, references, index term

Queueing Network-Model Human Processor (QN-MHP) is a computational architecture that integ
approaches to cognitive modeling: the queueing network approach and the symbolic approach (r
MHP/GOMS family of models, ACT-R, EPIC, and SOAR). Queueing networks are particularly suite
activities and complex structures. Symbolic models have particular strength in generating a pers
task situations. By integrating the two ...

Keywords: Cognitive model, cognition, human information processing, human-computer intera\

18 The design and implementation of hierarchical software systems with reusable component
Don Batory, Sean O'Malley
October 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volum
Publisher: ACM Press
Full text available: pdf(3.15 MB)   Additional Information: full citation, abstract, references, citings, inc

We present a domain-independent model of hierarchical software system design and constructio
interchangeable software components and large-scale reuse. The model unifies the conceptualiz.
projects, Genesis and Avoca, that are successful examples of software component/building-block
modeling. Building-block technologies exploit large-scale reuse, rely on open architecture softwa
granularity of programming to ...

Keywords: domain modeling, open system architectures, reuse, software building-blocks, softw

19 Full papers: Tree bitmap: hardware/software IP lookups with incremental updates
Will Eatherton, George Varghese, Zubin Dittia
April 2004   **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(189.39 KB)   Additional Information: full citation, abstract, references, citings

Even with the significant focus on IP address lookup in the published literature as well as focus o
commercial semiconductor vendors, there is still a challenge for router architects to find solutior
meet 3 criteria: scaling in terms of lookup speeds as well as table sizes, the ability to perform hi
ability to fit into the overall memory architecture of an Level 3 forwarding engine or packet proc
cost overhead. I ...

20 Web mining for web personalization
Magdalini Eirinaki, Michalis Vazirgiannis
February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(293.73 KB)   Additional Information: full citation, abstract, references, citings, inc

Web personalization is the process of customizing a Web site to the needs of specific users, takii
knowledge acquired from the analysis of the user's navigational behavior (usage data) in correla
information collected in the Web context, namely, structure, content, and user profile data. Due
the Web, the domain of Web personalization has gained great momentum both in the research a
this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

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                                    ☐ Open results in a new window

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21 Process migration
Dejan S. Milojičić, Fred Douglis, Yves Paindaveine, Richard Wheeler, Songnian Zhou
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Publisher: ACM Press
Full text available: ⬛ pdf(1.24 MB)   Additional Information: full citation, abstract, references, citings, inc

> Process migration is the act of transferring a process between two machines. It enables dynamic
> resilience, eased system administration, and data access locality. Despite these goals and ongoir
> migration has not achieved widespread use. With the increasing deployment of distributed syste
> distributed operating systems in particular, process migration is again receiving more attention i
> product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migra

22 Programming languages and systems for prototyping concurrent applications
Wilhelm Hasselbring
March 2000   **ACM Computing Surveys (CSUR)**, Volume 32 Issue 1
Publisher: ACM Press
Full text available: ⬛ pdf(559.78 KB)   Additional Information: full citation, abstract, references, citings, inc

> Concurrent programming is conceptually harder to undertake and to understand than sequential
> programmer has to manage the coexistence and coordination of multiple concurrent activities. T
> several high-level approaches to concurrent programming have been developed. For some high-
> approaches, prototyping for facilitating early evaluation of new ideas is a central goal. Prototypir
> the ...

Keywords: concurrency, distribution, parallelism, rapid prototyping, very high-level languages

23 *Firmato*: A novel firewall management toolkit
Yair Bartal, Alain Mayer, Kobbi Nissim, Avishai Wool
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4
Publisher: ACM Press
Full text available: ⬛ pdf(917.80 KB)   Additional Information: full citation, abstract, references, index term

> In recent years packet-filtering firewalls have seen some impressive technological advances (e.ç
> transparency, performance, etc.) and wide-spread deployment. In contrast, firewall and security
> technology is lacking. In this paper we present <i>Firmato</i>, a firewall management toolkit,
> distinguishing properties and components: (1) an entity-relationship model containing, in a unifi
> of the sec ...

Keywords: Security policy, firewall, management, model definition language, visualization

24 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin,** Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB)   Additional Information: full citation, abstract, citings

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a knowledge representation research. We felt that there were twe useful functions such an issue c hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge to illuminate the issues on which current research is focused, and to catalogue what approaches currently being developed. Secon ...

25 Analyzing peer-to-peer traffic across large networks

Subhabrata Sen, Jia Wang

April 2004   **IEEE/ACM Transactions on Networking (TON),** Volume 12 Issue 2

Publisher: IEEE Press

Full text available: pdf(616.51 KB)   Additional Information: full citation, abstract, references, citings, inc

The use of peer-to-peer (P2P) applications is growing dramatically, particularly for sharing large software. In this paper, we analyze P2P traffic by measuring flow-level information collected at r across a large ISP network, and report our investigation of three popular P2P systems--FastTrac Connect. We characterize the P2P trafffic observed at a single ISP and its impact on the underlyi very skewed distrib ...

Keywords: P2P, file sharing, peer-to-peer, traffic characterization, traffic measurement

26 Intelligent patent analysis through the use of a neural network: experiment of multi-viewpoi MultiSOM model

Jean-Charles Lamirel, Shadi Al Shehabi, Martial Hoffmann, Claire François

July 2003   **Proceedings of the ACL-2003 workshop on Patent corpus processing - Volun**

Publisher: Association for Computational Linguistics

Full text available: pdf(543.24 KB)   Additional Information: full citation, abstract, references, citings

The main area of this paper concerns the neural methods for mapping scientific and technical inf patents) and for assisting a user in carrying out the complex process of analysing large quantitie the procedure of information analysis, like in the domain of patent analysis, the complexity of th accuracy of the question to be answered may often lead the analyst to partition his reasoning in classical infor ...

27 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985   **ACM SIGART Bulletin,** Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflecte received from over six countries. About half the papers were received over the computer networ

28 Selected IR-Related Dissertation Abstracts

September 1991 **ACM SIGIR Forum,** Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(2.75 MB)   Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieva

computer search, using BRS Information Technologies, of the Dissertation Abstracts Online data University Microfilms International (UMI). Included are UMI order number, title, author, degree, of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by t Unless otherwise spec ...

29 Session 5: P2P and streaming: Analyzing peer-to-peer traffic across large networks
Subhabrata Sen, Jia Wang
November 2002 **Proceedings of the 2nd ACM SIGCOMM Workshop on Internet measurment**
Publisher: ACM Press
Full text available: pdf(1.56 MB)   Additional Information: full citation, abstract, references, citings, inc

The use of peer-to-peer (P2P) applications is growing dramaticaliy, particularly for sharing large software. In this paper, we analyze P2P traffic by measuring flow-level information collected at r across a large ISP network, and report our investigation of three popular P2P systems -- FastTra DirectConnect. We characterize the P2P traffic observed at a single ISP and its impact on the un observe very skewed distrib ...

30 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html(2.78 KB)   Additional Information: full citation, references, citings, index terms

31 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking s creation from folklore to analysis, SW components and product lines: from business to sys Software engineering survey)
September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5
Publisher: ACM Press
Full text available: pdf(1.98 MB)   Additional Information: full citation, index terms

32 IP lookup and packet classification: SSA: a power and memory efficient scheme to multi-m classification
Fang Yu, T. V. Lakshman, Martin Austin Motoyama, Randy H. Katz
October 2005 **Proceedings of the 2005 symposium on Architecture for networking and con ANCS '05**
Publisher: ACM Press
Full text available: pdf(323.22 KB)   Additional Information: full citation, abstract, references, index term

New network applications like intrusion detection systems and packet-level accounting require m classification, where all matching filters need to be reported. Ternary Content Addressable Mem(adopted to solve the multi-match classification problem due to their ability to perform fast parall TCAM is expensive and consumes large amounts of power. None of the previously published mul schemes is both memory and power ...

Keywords: TCAM, energy-efficient design, multiple-match, packet classification

33 Information storage and retrieval: a survey and functional description
Jack Minker
September 1977 **ACM SIGIR Forum**, Volume 12 Issue 2
Publisher: ACM Press
Full text available: pdf(5.14 MB)   Additional Information: full citation, abstract, references, citings

Information Storage and Retrieval (IS&R) encompasses a broad scope of topics ranging from ba accessing data to sophisticated approaches for the analysis of natural language text and the ded Within the field, three general areas of investigation can be distinguished not only by their subje

types of individuals presently interested in them:(1) Document retrieval,(2) Generalized data m;
Question-answering.A functional ...

Keywords: automatic indexing, data management, data structures, deductive search, informati
language, problem solving, question-answering, relational data systems, theorem proving

34   Design of a high-performance ATM firewall

Jun Xu, Mukesh Singhal
August 1999   **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issu
Publisher: ACM Press
Full text available: pdf(143.19 KB)   Additional Information: full citation, abstract, references, index term

A router-based packet-filtering firewall is an effective way of protecting an enterprise network fr
However, it will not work efficiently in an ATM network because it requires the termination of en
at a packet-filtering router, which incurs huge overhead of SAR (Segmentation and Reassembly)
this problem have been proposed in the literature, and none is completely satisfactory. In this p.
hardware desig ...

Keywords: TCP/IP, asynchronous transfer mode, firewall, packet filtering, switch architecture

35   Clustering intrusion detection alarms to support root cause analysis

Klaus Julisch
November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Iss
Publisher: ACM Press
Full text available: pdf(285.72 KB)   Additional Information: full citation, abstract, references, citings, inc

It is a well-known problem that intrusion detection systems overload their human operators by t
alarms per day. This paper presents a new approach for handling intrusion detection alarms mor
this approach is the notion that each alarm occurs for a reason, which is referred to as the alarm
observes that a few dozens of rather persistent root causes generally account for over 90&percn
intrusion ...

Keywords: Intrusion detection, cluster analysis, data mining, false positives, root cause analysi

36   Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan
August 2004   **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(12.56 MB)   Additional Information: full citation, abstract

Large repositories of 3D data are rapidly becoming available in several fields, including mechani
biology, and computer graphics. As the number of 3D models grows, there is an increasing need
to help people find the interesting ones and discover relationships between them. Unfortunately,
search techniques are not always effective for 3D models, especially when queries are geometri
objects that fit into thi ...

37   OAI in action: eBizSearch: an OAI-compliant digital library for eBusiness

Yves Petinot, Pradeep B. Teregowda, Hui Han, C. Lee Giles, Steve Lawrence, Arvind Rangaswamy,
May 2003   **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCI**
Publisher: IEEE Computer Society
Full text available: pdf(630.55 KB)   Additional Information: full citation, abstract, references, citings, inc

Niche Search Engines offer an efficient alternative to traditional search engines when the results
purpose search engines do not provide a sufficient degree of relevance and when nontraditional
required. Niche search engines can take advantage of their domain of concentration to achieve I
enhanced features. We discuss a new digital library niche search engine, eBizSearch, dedicated i
business documents. The ground ...

38 Selected IR-related dissertation abstracts

Susanne M. Humphrey
September 1989 **ACM SIGIR Forum**, Volume 24 Issue 1-2
Publisher: ACM Press
Full text available: pdf(3.70 MB)   Additional Information: full citation

39 A pipelined memory architecture for high throughput network processors

Timothy Sherwood, George Varghese, Brad Calder
May 2003   **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annua symposium on Computer architecture ISCA '03**, Volume 31 Issue 2
Publisher: ACM Press
Full text available: pdf(213.66 KB)   Additional Information: full citation, abstract, references, citings

Designing ASICs for each new generation of backbone routers is a time intensive and fiscally dra
paper we focus on the design of a programmable architecture for backbone routers, based on th
irregular memory words, that can provide a feasible design alternative to custom ASICs. We pro
design that emphasizes worst-case throughput over latency, and co-explore architectural tradeo
several important network algo ...

40 The V distributed system

David Cheriton
March 1988   **Communications of the ACM**, Volume 31 Issue 3
Publisher: ACM Press
Full text available: pdf(2.55 MB)   Additional Information: full citation, abstract, references, citings, inc

The V distributed System was developed at Stanford University as part of a research project to e
distributed systems. Aspects of the design suggest important directions for the design of future
communication systems.

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41 Argos: an emulator for fingerprinting zero-day attacks for advertised honeypots with autom generation
Georgios Portokalidis, Asia Slowinska, Herbert Bos
April 2006   **ACM SIGOPS Operating Systems Review , Proceedings of the 2006 EuroSys ₍**
Volume 40 Issue 4
Publisher: ACM Press
Full text available: 🔲 pdf(471.94 KB)   Additional Information: full citation, abstract, references, index term

As modern operating systems and software become larger and more complex, they are more lik
may allow attackers to gain illegitimate access. A fast and reliable mechanism to discern and ge₁
attacks is vital for the successful protection of networks and systems. In this paper we present ⸍
environment for worms as well as human orchestrated attacks. *Argos* is built upon a fast x86 en
network data throughout ...

42 Real-time shading
Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi
August 2004   **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: 🔲 pdf(7.39 MB)   Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this c˙
years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combinin
hundreds of rendering passes. Today, almost every new computer comes with graphics hardwar
executing shaders of thousands to tens of thousands of instructions. This course has been redes
real-time shading capabili ...

43 Extracting usability information from user interface events
David M. Hilbert, David F. Redmiles
December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4
Publisher: ACM Press
Full text available: 🔲 pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, in₍

Modern window-based user interface systems generate user interface events as natural product₅
operation. Because such events can be automatically captured and because they indicate user b·
application's user interface, they have long been regarded as a potentially fruitful source of infor
application usage and usability. However, because user interface events are typically voluminos
automated support is generally ...

Keywords: human-computer interaction, sequential data analysis, usability testing, user interfა

44 Medical document indexing and retrieval: Using semantic components to express clinical c document collections

Susan L. Price, Lois M. Delcambre, Marianne Lykke Nielsen

November 2006 **Proceedings of the international workshop on Healthcare information and I management HIKM '06**

Publisher: ACM Press

Full text available: pdf(249.62 KB)   Additional Information: full citation, abstract, references, index term

Inability to find answers to clinical questions is a major obstacle to obtaining just-in-time inform encounters. We have introduced a new model for describing the content of documents in domair document classes and semantic components, that may supplement existing indexing and search improve information retrieval. In this paper we describe the model and present the results of ou the model to represent cl ...

Keywords: semantic components

45 Techniques for obtaining high performance in Java programs

Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(816.13 KB)   Additional Information: full citation, abstract, references, citings, inc

This survey describes research directions in techniques to improve the performance of programs programming language. The standard technique for Java execution is interpretation, which provi portability of programs. A Java interpreter dynamically executes Java bytecodes, which comprise Java Virtual Machine (JVM). Execution time performance of Java programs can be improved thro at the expense of portabili ...

Keywords: Java, Java virtual machine, bytecode-to-source translators, direct compilers, dynarr interpreters, just-in-time compilers

46 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(636.24 KB)   Additional Information: full citation, abstract, references, citings, inc

Clustering is the unsupervised classification of patterns (observations, data items, or feature vec (clusters). The clustering problem has been addressed in many contexts and by researchers in n reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. Howeve problem combinatorially, and differences in assumptions and contexts in different communities F useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clust unsupervised learning

47 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994   **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(8.01 MB)   Additional Information: full citation, abstract, references, citings, inc

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional dete survey presents five techniques that have been widely used in the design of randomized algoritr illustrated using 12 randomized algorithms—both sequential and distributed— that span a wide r including:primality testing (a classical problem in number theory), interactive probabilistic proof

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dininç distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leac routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, uι

48 Automatic subject indexing using an associative neural network

Yi-Ming Chung, William M. Pottenger, Bruce R. Schatz

May 1998 **Proceedings of the third ACM conference on Digital libraries DL '98**

Publisher: ACM Press

Full text available: pdf(1.26 MB)   Additional Information: full citation, references, citings, index terms

49 Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(20.64 MB)   Additional Information: full citation

50 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(6.23 MB)   Additional Information: full citation, abstract, references, citings, inc

Research aimed at correcting words in text has focused on three progressively more difficult pro detection; (2) isolated-word error correction; and (3) context-dependent work correction. In res efficient pattern-matching and n-gram analysis techniques have been developed for detecting st a given word list. In response to the second problem, a variety of general and application-specif

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling ċ checking, natural-language-processing models, neural net classifiers, spell checking, spelling err patterns, statistical-language models, word recognition and correction

51 Overlay networking: Connectivity restrictions in overlay multicast

Aditya Ganjam, Hui Zhang

June 2004   **Proceedings of the 14th international workshop on Network and operating s digital audio and video NOSSDAV '04**

Publisher: ACM Press

Full text available: pdf(119.05 KB)   Additional Information: full citation, abstract, references, citings, inc

A large number of overlay multicast protocols have been developed, almost all of which assume between end hosts. However, in reality, this assumption is not valid with widespread use of Netι (NAT) and firewalls. The impact of NAT and firewall connectivity restrictions on overlay multicasl application-endpoint setting, has not been seriously considered. In this paper, we argue that it iː connectivity restriction ...

Keywords: firewall, network address translator, overlay multicast, peer-to-peer systems

52 IS '97: model curriculum and guidelines for undergraduate degree programs in information

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on guidelines for undergraduate degree programs in information systems IS '·**

Publisher: ACM Press

Full text available: Additional Information:

pdf(7.24 MB)   full citation, citings

53 Incentive-based modeling and inference of attacker intent, objectives, and strategies

Peng Liu, Wanyu Zang, Meng Yu

February 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issu

Publisher: ACM Press

Full text available: pdf(963.16 KB)   Additional Information: full citation, abstract, references, index term

Although the ability to model and infer attacker intent, objectives, and strategies (AIOS) may dr literature of risk assessment, harm prediction, and predictive or proactive cyber defense, existin techniques are ad hoc and system or application specific. In this paper, we present a general inc model AIOS and a game-theoretic approach to inferring AIOS. On one hand, we found that the c unify a large variety of att ...

Keywords: Attacker intent and strategy modeling, attack strategy inference, game theory

54 Appication models: Client-system collaboration for legal corpus selection in an online prod

Jack G. Conrad, Joanne R. S. Claussen

June 2003   **Proceedings of the 9th international conference on Artificial intelligence and**

Publisher: ACM Press

Full text available: pdf(239.10 KB)   Additional Information: full citation, abstract, references

The continued growth of very large data environments such as Westlaw and Dialog, in addition t increases the importance of effective and efficient database selection and searching. Current res completely autonomous and automatic selection, searching, and results merging in distributed e automatic approach has significant deficiencies, including reliance upon thresholds below which documents are not search ...

Keywords: database selection, query categorization, user interaction

55 Selected IR-Related Dissertation Abstracts

May 1991   **ACM SIGIR Forum**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(2.71 MB)   Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieva computer search, using BRS Information Technologies, of the Dissertation Abstracts Online data University Microfilms International (UMI). Included are UMI order number, title, author, degree, of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by t Unless otherwise spec ...

56 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

May 2002   **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(335.47 KB)   Additional Information: full citation, abstract, references, citings, in

The World Wide Web has succeeded in large part because its software architecture has been des of an Internet-scale distributed hypermedia application. The modern Web architecture emphasiz component interactions, generality of interfaces, independent deployment of components, and ir to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article w Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

57 Machine learning in automated text categorization

Fabrizio Sebastiani

March 2002   **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: pdf(524.41 KB)   Additional Information: full citation, abstract, references, citings, inc

The automated categorization (or classification) of texts into predefined categories has witnesse
the last 10 years, due to the increased availability of documents in digital form and the ensuing
the research community the dominant approach to this problem is based on machine learning te
inductive process automatically builds a classifier by learning, from a set of preclassified docume
the categories. ...

Keywords: Machine learning, text categorization, text classification

58 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004   **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(316.85 KB)   Additional Information: full citation, abstract, references, citings, inc

Digital libraries (DLs) are complex information systems and therefore demand formal foundation
diverge and interoperability suffers. In this article, we propose the fundamental abstractions of ⟨
Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and us
sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Str
labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

59 Measuring and characterizing end-to-end Internet service performance

Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(1.46 MB)   Additional Information: full citation, abstract, references, citings, inc

Fundamental to the design of reliable, high-performance network services is an understanding o
characteristics of the service as perceived by the client population as a whole. Understanding an
end service performance is a challenging task. Current techniques include periodic sampling of s
strategic locations in the network and instrumenting Web pages with code that reports client-pei
performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, r
composition, web site performance

60 Learning methods: Interactive deduplication using active learning

Sunita Sarawagi, Anuradha Bhamidipaty

July 2002   **Proceedings of the eighth ACM SIGKDD international conference on Knowlec
mining KDD '02**

Publisher: ACM Press

Full text available: pdf(1.14 MB)   Additional Information: full citation, abstract, references, citings, inc

Deduplication is a key operation in integrating data from multiple sources. The main challenge ir
function that can resolve when a pair of records refer to the same entity in spite of various data
existing systems use hand-coded functions. One way to overcome the tedium of hand-coding is
distinguish between duplicates and non-duplicates. The success of this method critically hinges (
covering and ...

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and building an **Associations model** ...
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ENGINES

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neural **network model**. The training phase involves the extraction of **...**
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